

ABSTRACT

DATA PROCESSING SYSTEM AND METHOD

5 Embodiments of the present invention relate to a data processing system comprising a first arithmetic unit comprising at least one finite field multiplier and at least one finite field adder for selectively performing at least two finite field arithmetic calculations; the data processing system comprising means to use a previous 10 finite field arithmetic calculation result in a current finite field arithmetic calculation to determine at least part of a polynomial.

(figure 1)

15